

# TPLOGCONFIG(3)

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## Chapter 1

# SYNOPSIS

```
#include <ndebug.h> #include <nerror.h>
```

```
int tplogconfig(int logger, int lev, char *debug_string, char *module, char *new_file);
```

Link with *-lnstd -lpthread -lrt -lm*

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## Chapter 2

# DESCRIPTION

Function does configure logging facilities - **NDRX** (XATMI internal logs), **UBF** (UBF internal logs) and **TP** (User logs). If not already logger started, then this function will initiate Enduro/X framework to load the logging settings from [ @debug ] ini section or from **ndrxdebug.conf(5)**. Then with help of this function user is able to override loaded settings.

Also it is possible to set per thread logging, if facility code used here is **LOG\_FACILITY\_TP\_THREAD**. Or it is possible to configure request based logging from this function, but **tplogsetreqfile\_direct(3)** and **tplogsetreqfile(3)** is recommended to use instead.

The logging facility is set in *logger* parameter, you may unify settings for multiple facilities with bitwise OR. The facilities defined are following:

```
#define LOG_FACILITY_NDRX      0x00001 /* settings for ATMI logging          */
#define LOG_FACILITY_UBF      0x00002 /* settings for UBF logging          */
#define LOG_FACILITY_TP       0x00004 /* settings for TP logging           */
#define LOG_FACILITY_TP_THREAD 0x00008 /* settings for TP, thread based logging */
#define LOG_FACILITY_TP_REQUEST 0x00010 /* Request logging, thread based      */
```

*logger* is mandatory parameter to the function. To configure logging level for given facilities, you may use *lev* to indicate one of the following levels:

```
#define log_always      1
#define log_error       2
#define log_warn        3
#define log_info        4
#define log_debug       5
#define log_dump        6 /* this is un-offical level, normally use 1..5 */
```

*lev* is optional parameter, and if not used, then set it to *-1*. Function accepts optional parameter *debug\_string*, which is Enduro/X standard debug string. If field not set then it might be NULL or empty (EOS). If set, then it contains the configuration settings described in **ndrxdebug.conf(5)** or see **ex\_devguide(guides)**. One special note here is that, with debug string you may set log levels for **NDRX**, **UBF** and **TP** facilities, thus **NDRX** and **UBF** log levels will affect the per-process common settings, i.e. they are common for thread and request logging. However **TP** will change the level of the given logger facility, per process (**LOG\_FACILITY\_TP**), per thread (**LOG\_FACILITY\_TP\_THREAD**) or per request (**LOG\_FACILITY\_TP\_REQUEST**).

If the *lev* parameter is present and it will override the given loggers settings from *debug\_string*. The same applies if *debug\_string* contains the logging file, the *new\_file* is present (not NULL and not EOS) will override the output file setting if *file* param is present in *debug\_string*.

*module* module indicates the module code string which is plotted in each logged line. This is valid only for **TP** loggers for **NDRX** and **UBF** it is ignored.

## Chapter 3

# RETURN VALUE

On success, **tplogconfig()** returns 0. On error, -1 is returned, with **Nerror** set to indicate the error.

## Chapter 4

# ERRORS

Note that **Nstrerror()** returns generic error message plus custom message with debug info from last function call.

**NEFORMAT** Invalid format for *debug\_string*.

**NESYSTEM** System error occurred. See the logs for more info.

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## Chapter 5

# EXAMPLE

See `atmitest/test031_logging/atmiclt31.c` for sample code.



## Chapter 6

# BUGS

Report bugs to [madars.vitolins@gmail.com](mailto:madars.vitolins@gmail.com)

## Chapter 7

## SEE ALSO

**tplogdump(3)** **tplogdumpdiff(3)** **tplog(3)** **tplogsetreqfile\_direct(3)** **tplogsetreqfile(3)** **ex\_devguide(guides)** **ndrxdebug.conf(5)**

# Chapter 8

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